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SMART & BIGGAR/FETHERSTONHAUGH & CO.			MARSH, OLI	MARSH, OLIVIA MARIE	
P.O. BOX 2999	9. STATION D				
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			2686		
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/787,296	MUNJE, ARUN			
		Examiner	Art Unit			
		Olivia Marsh	2686			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory perior ire to reply within the set or extended period for reply will, by statu- teply received by the Office later than three months after the mail- ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be timed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 27	February 2004.				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	-,-					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)⊠	4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
·	Claim(s) <u>1-10,12-16 and 19-22</u> is/are rejected	d .				
	Claim(s) 11,17 and 18 is/are objected to.					
8)[8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
9)□	The specification is objected to by the Examir	ner				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
,	Applicant may not request that any objection to the	•				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119		·			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachmen	t(s)					
1) Notic	1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
3) 🛛 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>9/21/2005</u> .	Paper No(s)/Mail Da 3)	atent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7, 9, and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Haumont (US 2004/0102199 A1).

As to claim 1, Haumont discloses the present invention relates to paging areas in a network environment where multiple radio technologies are used with typically one radio technology overlaying another and particularly but not exclusively concerned with paging areas in a GSM/UMTS system where 2G and 3G cells are provided in tandem (paragraph 1), reading on claimed "a method of paging in a communications system comprising at least two networks." Haumont also discloses a first step 306 the 3G SGSN 104 initiates a page 202 through the RNC 108, in accordance with techniques known in the art (paragraph 45). Haumont also discloses second step 308, in accordance with the present invention, the 3G SGSN 104 initiates a page through the 2G SGSN 102, by sending a page command 204 to the 2G SGSN on the interface 122 (paragraph 46), reading on claimed "transmitting a first page on a first network to an area defined by first location information pertaining to the first network and second location information pertaining to a second network."

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As to claim 2, Haumont discloses everything as applied in claim 1 and Haumont also discloses the 3G SGSN is preferably adapted to have a configuration giving the 2G SGSN IP address for each routing area (or in alternative implementations, location area); the 2G SGSN is adapted to receive the paging request 204 and use the information contained therein to send a paging request 208 to the BSC (paragraph 53), reading on claimed "transmitting a second page on the second network to an area defined by second location information pertaining to the second network and first location information pertaining to the first network."

As to claim 3, Haumont discloses everything as applied in claim 1 and Haumont also discloses a network scenario where a cell area provides both 2G and 3G radio coverage (paragraph 47; Figure 1), reading on claimed "area comprises each possible paging location consistent with both the first location information and the second location information."

As to claim 4, Haumont discloses everything as applied in claims 1 and 3 and Haumont also discloses a user of user equipment, such as user equipment 118, roaming in the area 114, will pass through areas where 2G and 3G radio coverage is provided, and areas where only 2G radio coverage is provided (paragraph 40), reading on claimed "the first location information identifies at least one location in the first network and the second location information identifies at least one location in the second network." Haumont also discloses a network scenario where a cell area provides both 2G and 3G radio coverage (paragraph 47; Figure 1), reading on claimed "area comprises an intersection between the at least one location of the first network and the at least one location of the second network."

As to claim 5, Haumont discloses everything as applied in claims 1 and 3 and Haumont also discloses the Paging Area IE identifies the area (e.g. RA or Location area)

in which the radio interface paging message is broadcast (paragraph 52). Haumont also discloses the 3G SGSN is preferably adapted to have a configuration giving the 2G SGSN IP address for each routing area (paragraph 53), reading on claimed "the first location information identifies a logical area of the first network and the second location information identifies a logical area of the second network." Haumont also discloses a network scenario where a cell area provides both 2G and 3G radio coverage (paragraph 47; Figure 1), reading on claimed "area comprises an intersection between the logical area of the first network and the logical area of the second network."

As to claim 6, Haumont discloses everything as applied in claims 1, 3, and 5 and Haumont also discloses paging areas in a GSM/UMTS system where 2G and 3G cells are provided in tandem (paragraph 1), reading on claimed "each paging location within the first network comprises a cell." Haumont also discloses, as stated previously, a network scenario where a cell area provides both 2G and 3G radio coverage (paragraph 47; Figure 1), reading on claimed "the area comprises only cells of the first network which intersect with the logical area of the second network."

As to claim 7, Haumont discloses everything as applied in claims 1, 3, and 5-6 and Haumont also discloses, as stated previously, a network scenario where a cell area provides both 2G and 3G radio coverage (paragraph 47; Figure 1), reading on claimed "the logical area of the second network comprises at least one cell of the second network, and wherein the area comprises only cells of the first network which intersect any cell of the logical area of the second network."

As to claim 9, Haumont discloses everything as applied in claim 1 and Haumont also discloses:

[0037] Referring to FIG. 1, there is illustrated a network scenario where a cell area provides both 2G and 3G radio coverage. In FIG. 1, a 2G SGSN (serving GPRS support node) 102 is connected to a BSC (base station controller) 106, which in turn supports a plurality of BTSs (base transceiver stations) 110. The plurality of BTSs 110 provide radio coverage for a 2G mobile communications network in a physical area generally designated by the reference numeral 114 in FIG. 1, reading on claimed "a second set of cells within the second network within which a mobile device is expected to be located."

[0038] Further in FIG. 1, a 3G SGSN 104 is connected to a RNC (radio network controller) 108, which in turn supports a plurality of node Bs 112. The plurality of node Bs 112 provide radio coverage for a 3G mobile communications network within the physical area 114 in FIG. 1, reading on claimed "a first set of cells within the first network within which a mobile device is expected to be located." The area of 3G radio coverage is generally designated by the reference numeral 120 in FIG. 1. The areas designated by reference numeral 114 and 120 define a single routing area, RA1, for the mobile communication system, reading on claimed "a first logical area within the first network having a first associated set of cells within which a mobile device is expected to be located." In some situations, the area of 3G radio coverage will generally be smaller than that of 2G radio.

[0052] ... The Paging Area IE identifies the area (e.g. RA or Location area) in which the radio interface paging message is broadcast, reading on claimed "an identifier of a first geographical area within the first network within which a mobile device is expected to be located."

[0053] The 3G SGSN is preferably adapted to have a configuration giving the 2G SGSN IP address, reading on claimed "identifier of a second geographical area," for each routing area, reading on claimed "second logical area," (or in alternative

implementations, location area), reading on claimed "a second logical area within the second network having a second associated set cells within which a mobile device is expected to be located; and an identifier of a second geographical area within the second network within which a mobile device is expected to be located.

As to **claim 14**, Haumont discloses everything as applied in claim 1 and Haumont also discloses a network scenario where a cell area provides both 2G and 3G radio coverage (paragraph 47; Figure 1), reading on claimed "area comprises a geographical area defined by an intersection of the respective known geographical areas of the two networks."

As to claim 15, Haumont discloses everything as applied in claim 1 and Haumont also discloses UMTS (Universal mobile telecommunications system) systems, or so-called 3G (3.sup.rd Generation) mobile telecommunication systems, are likely to be introduced alongside existing GSM, or so-called 2G (2.sup.nd Generation) mobile telecommunication systems and 3G cells or radio coverage areas will overlay 2G cells (paragraph 2), reading on claimed "the first network and the second network comprise a pair of networks, the pair selected from a group of pairs consisting of: c) a packet data network and a voice call network."

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3. Claims 19-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Silver et al (U.S. 6560457 B1).

As to claim 19, Silver discloses delivery of telecommunications services and, more particularly, to sharing of information representing the geographic location of a mobile terminal by two networks serving the terminal in substantially the same geographic area (column 1, lines 10-15), reading on claimed "a communications system comprising at least two networks." Silver also discloses:

As is best shown in FIG. 2, each of MSC's 113A, 113B and 113C, all reading on claimed "service controller," which represent all or a portion of the voice network 110, services its respective region A, B and C through associated BTSs to which each MSC is linked. In the example shown, MSC-112, reading on claimed "internetwork overlap determiner exchanger," which functions as the gateway MSC, interfaces directly with SGSN 121, but is not shown. MSC 112 preferably maintains a database, look up table, or other means through which information representing the location of an MT in the data network 120 can be mapped or cross-referenced to a corresponding location within the voice network 110. Such information is preferably stored and accessed from the VLR 115 associated with gateway MSC 112B. [column 7, lines 44-56]

To facilitate and expedite call setup in the present invention, SGSN 121 provides to MSC 112 information representing the approximate location of an MT to which an incoming call from the voice network 110 is directed, reading on claimed "receiving from a second network of the system second location information pertaining to the second network." Such information is provided to the gateway MSC 112 prior to receipt by any MSC of the voice network 110 of a page

response from the MT called. Such information is used by the MSC 112 to determine in which of regions A, B and C is approximately located, reading on claimed "processing the second location information with first location information pertaining to the first network to generate intersection information. MSC 112 then directs the MSC serving that region to initiate a service page to the called MT without the need to await a response from the MT initiated by a page from the data network 120, reading on claimed "a service controller for sending a page over a first network of the system" and "the service controller is adapted to send the page to paging locations as a function of the intersection information." This not only avoids the delay associated with the data network page and response from the MT, but also avoids the need to expend resources unnecessarily by directing a global page to determine the location of the called MT. [column 7, lines 57-57; column 8, lines 1-5]

As to claim 20, Silver discloses everything as applied in claim 19 and Silver also discloses MSC 112 preferably maintains a database; look up table, or other means through which information representing the location of an MT in the data network 120 can be mapped or cross-referenced to a corresponding location within the voice network 110. Such information is preferably stored and accessed from the VLR 115 associated with gateway MSC 112B (column 7, lines 50-55), reading on claimed "a visited location register for storing the first location information." Silver also discloses following receipt by MSC 113 of the page response, an Unsolicited Response (UNSOLRES) message, including a Temporary Local Directory Number (TLDN), is sent to the gateway MSC 112 (column 6, lines 49-52), reading on claimed "the service controller is adapted to retrieve the first location information." Silver also discloses page message is forwarded from the SGSN 121 to the BSS 125, a message bearing location information data is transmitted

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by the packet-switched network SGSN 121 to the circuit-switched network gateway MSC 113B and such location information represents the approximate location of the MT 130 within the data network 120 (column 8, lines 32-37), reading on claimed "an internetwork area exchanger for receiving the second location information." Silver also discloses MSC 112 preferably maintains a database, look up table, or other means through which information representing the location of an MT in the data network 120 can be mapped or cross-referenced to a corresponding location within the voice network 110 (column 7, lines 50-54), reading on claimed "an area overlap determiner for processing the second location information with the first location information to generate the intersection information, wherein the intersection information comprises locations defined by the first location information which are locations also defined by the second location information; wherein the paging locations are defined by the intersection information."

As to **claim 21**, Silver discloses everything as applied in claims 19-20 and Silver also discloses:

The geographic location of components and coverage areas of a circuit-switched network (voice network) 110 and a geographically overlapping packet-switched network (data network) 120. Base Transceiver Stations similar to BTSs 117, 118 and 119 of FIG. 1 are shown as triangles in FIG. 2 and Base Stations similar to BSSs 123, 124 and 125 associated with the packet-switched network 120 are illustrated as circles. The coverage area and components of the voice network 110 are illustrated in solid lines, whereas the components and coverage area of the data network area 120 is illustrated by broken lines. The geographic area of coverage by the voice network 110 comprises regions A, B and C, serviced by MSCs 113A, 113B and 113C, respectively, providing service similar to the single MSC 113 shown elsewhere in the FIGURES. It will be apparent that MSCs 111.

112 and 113 provide multiple functions beyond those described in the example of call setup described here. Similarly, the coverage area of the data network 120 is region D and is serviced by SGSN 121. For purposes of example, MTs 130, 131, 132, and 133 are shown at different locations within the coverage areas of both the voice network 110 and the data network 120. [column 5, lines 43-65] Reading on claimed "the first location information comprises information pertaining to a first logical area of the first network, and the second location information comprises information pertaining to a second logical area of the second network."

Silver also discloses MSC 112 preferably maintains a database, look up table, or other means through which information representing the location of an MT in the data network 120 can be mapped or cross-referenced to a corresponding location within the voice network 110 (column 7, lines 50-55), reading on claimed "the area overlap determiner generates the intersection information by determining cells of an intersection area which are located within both the first logical area and the second logical area, and wherein the intersection information defines the cells of the intersection, and wherein the paging locations are co- extensive with the cells of the intersection."

As to claim 22, Silver discloses everything as applied in claim 19 and Silver also discloses following receipt of the location information data, MSC 112 transmits an Inter System Page (ISPAGE) to MSC 113, which is previously determined as servicing the region in which MT 130 is likely to be located (column 8, lines 50-53), reading on claimed "an internetwork area exchanger for transmitting the second location information from the second network to the internetwork overlap determiner exchanger."

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Haumont as applied to claims 1, and 5-7 above, and further in view of Belkin *et al* (U.S. 6,151,501).

As to claim 8, Haumont discloses everything as applied in claims 1 and 5-7 above; however, Haumont fails to disclose each transmitter for a cell of the first network is co-located with a transmitter for a corresponding co-extensive cell of the second network, and wherein each transmitter for the cell of the first network and the transmitter for the corresponding co- extensive cell of the second network share an antenna. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention as taught by Belkin.

In an analogous art, Belkin teaches a method and apparatus for alerting a communication unit of a service request in a communication systems (column 1, lines 7-9). Belkin also teaches base site 114 provides a first communication service to communication unit 118, located in service coverage area 103 of location area 102 (column 3,lines 10-12). Belkin also teaches base site 114 receives service information from communication unit 118 related to a second communication service (column 3, lines 21-22). Belkin also teaches dispatch system controller 120 sends base site 114 a service request message requesting communication unit 118 to participate in a second

communication service (column 3, lines 50-52). Belkin also teaches the user of communication unit 118 can then choose whether to continue with the telephone call service or to use the group call service to respond to the second user (column 3, lines 64-67), reading on claimed "for a cell of the first network is co-located with a transmitter for a corresponding co-extensive cell of the second network, and wherein each transmitter for the cell of the first network and the transmitter for the corresponding co-extensive cell of the second network share an antenna."

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the method, disclosed by Haumont, for a cell of the first network is co-located with a transmitter for a corresponding co-extensive cell of the second network, and wherein each transmitter for the cell of the first network and the transmitter for the corresponding co- extensive cell of the second network share an antenna, as taught by Belkin, to enable a consumer to subscribe to one service provider and buy one device which meets many the subscriber's communication needs.

6. Claims 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haumont as applied to claim 1 above, and further in view of Krebs et al (U.S. 5,548,631).

As to claim 10, Haumont discloses everything as applied in claim 1; however, Haumont fails to disclose the first network is an interconnect network, the second network is a dispatch network, and wherein the first location information comprises a location area identifier identifying a location area having a first associated set of cells within the first network within which a mobile device is expected to be located, and the second location information comprises a dispatch area identifier identifying a dispatch location area having a second associated set of cells within which a mobile device is expected to be located. The Examiner contends this feature was old and well known in the art at the time of invention as taught by Krebs.

In an analogous art, Krebs teaches a communication system (100) supports both telephone services (101) and dispatch services (102) (column 2, lines 23-24), reading on claimed "the first network is an interconnect network, the second network is a dispatch network." Krebs also teaches site 1 (107) couples only to the communication agent processor (104), and site 3 (109) couples only to the dispatch call processor (106); however, site 2 (108) couples to both processors (104 and 106) and the infrastructure represented by site 2 is shared by both the communication agent processor (104) and the dispatch call processor (106) (column 2, lines 52-59), reading on claimed "the first location information comprises a location area identifier identifying a location area having a first associated set of cells within the first network within which a mobile device is expected to be located, and the second location information comprises a dispatch area identifier identifying a dispatch location area having a second associated set of cells within which a mobile device is expected to be located."

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the method, disclosed by Haumont, the first network is an interconnect network, the second network is a dispatch network, and wherein the first location information comprises a location area identifier identifying a location area having a first associated set of cells within the first network within which a mobile device is expected to be located, and the second location information comprises a dispatch area identifier identifying a dispatch location area having a second associated set of cells within which a mobile device is expected to be located, as taught by Krebs, to enable systems offering these different communication services both have substantially equal access to desirable base station locations.

As to claim 16. Haumont discloses everything as applied in claim 1; however, Haumont fails to disclose the second network is an interconnect network, and the first network is a dispatch network. The Examiner contends this feature was old and well known in the art at the time of invention as taught by Krebs.

Krebs also teaches, as stated previously, a communication system (100) supports both telephone services (101) and dispatch services (102) (column 2, lines 23-24). Krebs also teaches site 1 (107) couples only to the communication agent processor (104), and site 3 (109) couples only to the dispatch call processor (106); however, site 2 (108) couples to both processors (104 and 106) and the infrastructure represented by site 2 is shared by both the communication agent processor (104) and the dispatch call processor (106) (column 2, lines 52-59), reading on claimed "the second network is an interconnect network, and the first network is a dispatch network."

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the method, disclosed by Haumont, the second network is an interconnect network, and the first network is a dispatch network, as taught by Krebs, to

enable systems offering these different communication services both have substantially equal access to desirable base station locations.

7. Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haumont as applied to claim 1 above, and further in view of Silver *et al* (U.S. 6560457 B1).

As to claim 12, Haumont discloses everything as applied in claim 1; however, Haumont fails to disclose comparing the first location information with the second location information; generating intersection location information comprising intersection locations defined by the first location information which are also locations defined by the second location information; and defining the area in which to transmit the first page to comprise paging locations which are defined by the intersection locations. The Examiner contends this feature was old and well known in the art at the time of invention as taught by Silver.

In an analogous art, Silver teaches delivery of telecommunications services and, more particularly, to sharing of information representing the geographic location of a mobile terminal by two networks serving the terminal in substantially the same geographic area (column 1, lines 10-14). Silver also teaches [column 7, lines 44-67; column 8, lines 1-5]:

As is best shown in FIG. 2, each of MSC's 113A, 113B and 113C, which represent all or a portion of the voice network 110, services its respective region A, B and C through associated BTSs to which each MSC is linked. In the example shown, MSC-112, which functions as the gateway MSC, interfaces directly with SGSN 121, but is not shown. MSC 112 preferably maintains a database, look up table, or other means through which information representing

the location of an MT in the data network 120 can be mapped or cross-referenced to a corresponding location within the voice network 110, reading on claimed "comparing the first location information with the second location information." Such information is preferably stored and accessed from the VLR 115 associated with gateway MSC 112B.

To facilitate and expedite call setup in the present invention, SGSN 121 provides to MSC 112 information representing the approximate location of an MT to which an incoming call from the voice network 110 is directed. Such information is provided to the gateway MSC 112 prior to receipt by any MSC of the voice network 110 of a page response from the MT called. Such information is used by the MSC 112 to determine in which of regions A, B and C is approximately located, reading on claimed "generating intersection location information comprising intersection locations defined by the first location information which are also locations defined by the second location information." MSC 112 then directs the MSC serving that region to initiate a service page to the called MT without the need to await a response from the MT initiated by a page from the data network 120, reading on claimed "defining the area in which to transmit the first page to comprise paging locations which are defined by the intersection locations."

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to require the method, disclosed by Haumont, the steps of comparing the first location information with the second location information; generating intersection location information comprising intersection locations defined by the first location information which are also locations defined by the second location information; and defining the area in which to transmit the first page to comprise paging locations which

are defined by the intersection locations, as taught by Silver, in order to reduce the delay in connecting or completing setup of incoming calls to a dual or multi-mode wireless device.

As to claim 13, Haumont discloses everything as applied in claim 1; however, Haumont fails to disclose the first network comparing the first location information with the second location information; the first network generating intersection location information comprising only intersection locations defined by the first location information which are locations also defined by the second location information; and the first network defining the area in which to transmit the first page to comprise only paging locations defined by the intersection locations. The Examiner contends this feature was old and well known in the art at the time of invention as taught by Silver.

Silver also teaches [column 7, lines 44-67; column 8, lines 1-5]:

As is best shown in FIG. 2, each of MSC's 113A, 113B and 113C, which represent all or a portion of the voice network 110, reading on claimed "first network," services its respective region A, B and C through associated BTSs to which each MSC is linked. In the example shown, MSC-112, which functions as the gateway MSC, interfaces directly with SGSN 121, but is not shown, MSC 112 preferably maintains a database, look up table, or other means through which information representing the location of an MT in the data network 120 can be mapped or cross-referenced to a corresponding location within the voice network 110, reading on claimed "the first network comparing the first location information with the second location information." Such information is preferably stored and accessed from the VLR 115 associated with gateway MSC 112B.

To facilitate and expedite call setup in the present invention, SGSN 121 provides to MSC 112 information representing the approximate location of an MT to which

an incoming call from the voice network 110 is directed. Such information is provided to the gateway MSC 112 prior to receipt by any MSC of the voice network 110 of a page response from the MT called. Such information is used by the MSC 112 to determine in which of regions A, B and C is approximately located, reading on claimed "the first network generating intersection location information comprising intersection locations defined by the first location information which are also locations defined by the second location information." MSC 112 then directs the MSC serving that region to initiate a service page to the called MT without the need to await a response from the MT initiated by a page from the data network 120, reading on claimed "the first network defining the area in which to transmit the first page to comprise paging locations which are defined by the intersection locations."

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Allowable Subject Matter

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8. Claims 11, and 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olivia Marsh whose telephone number is 571-272-7912. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CHARLES APPIAH PRIMARY EXAMINER